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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-2/765/CEMENT/2014-15 Date: 16.02.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Executive Engineer**, Project Division, Dasarahalli Zone, BBMP, Bangalore.
***AGENCY**	:	**Technical Manager,** KRIDL, Bangalore.
***NAME OF THE WORK**	:	Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.
***REFERENCE**	:	EE/P.D/W.O/60/2012-13 Dated: 08.03.2013
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	14.02.2015
PERIOD OF TESTING	:	14.02.2015 to 16.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-2/765/SAND-Gradation/2014-15 : 16.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

Reference : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 14.02.2015

Date of Testing : 16.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.00	90-100	90-100	90-100	95-100
2.36	75.50	60-95	75-100	85-100	95-100
1.18	54.50	30-70	55-90	75-100	90-100
600 Micron	30.50	15-34	35-59	60-79	80-100
300 Micron	14.90	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-2/765/AGG/GR/2014-15 : 16.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

Reference : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 14.02.2015

Date of Testing : 16.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	39.00	30-70	0-20
10	19.00	10-35	0-5
4.75	4.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/Fencing/2014-15 20.02.2015

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Customer : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

Reference : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

Samples ID : Samples Supplied By Agency

Sl.No	Description	Result
1	Diameter	4.03 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.175 Kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/MS Angle/2014-15 19.02.2015

TEST REPORT ON STRUCTURAL STEEL

Customer : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

Reference : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-65X65X6mm (1m Length)

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Sl.No	Description	Result
1	Thickness	6.04 mm
2	Width	65.0 mm
3	Weight / Meter	5.83 Kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/MS Pipe/2014-15 20.02.2015

TEST REPORT ON M.S PIPE (38mm Dia)

Customer : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

Reference : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

Specimen Size : M.S Pipe 38mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.05 mm
2	Inner Diameter	38.10 mm
3	Outer Diameter	42.20 mm
4	Weight / Meter	1.890 kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/Paver Blocks/2014-15

16.03.2015

TEST REPORT

Customer	:	**Executive Engineer**, Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.
Reference	:	EE/P.D/W.O/60/2012-13 Dated: 08.03.2013
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	60.25	60.27
2	02	60.30	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	686.5	24,200	28.36
2	02	687.3	24,200	28.40

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-2/765/CUBE/2014-15 21.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Providing chainlink fencing to Aladamara Park 1 and 2 Shettyhalli Ward No.12, BBMP, Bangalore.

*** Reference** : EE/P.D/W.O/60/2012-13 Dated: 08.03.2013

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 24.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2015	21.04.2015	8.156	480.5	21.36
2	24.03.2015	21.04.2015	8.298	496.3	22.06
3	24.03.2015	21.04.2015	8.306	515.8	22.92

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